

**BPSU Surveillance of Neonatal Exchange Blood Transfusion in
Neonates \leq 28days old
Commences in October 2014**

(Short Study Name: Exchange blood transfusion)

Exchange Blood Transfusion (EBT) is now rare but remains an emergency treatment for very high or rapid rising serum bilirubin levels that are not responding to treatment with phototherapy. There is very little known about how often the procedure is performed currently in the UK & Ireland, or the complication rate. This information would be useful to inform medical practice and for counselling parents in the future.

The study aims to ascertain the current incidence and complication rates (including death) of EBT, as well as the practical difficulties of performing an EBT. There is insufficient understanding of the effect of current EBT procedures on the baby's clotting and platelet count, and therefore uncertainty about when the baby should have additional blood component support. Systematic collection of routinely available laboratory data will enable better recommendations for future practice and neonatal exchange red cell component development. A better understanding of the current incidence of adverse metabolic outcomes as a result of EBT, morbidity and mortality will be invaluable to guide future practice.

Duration: BPSU surveillance will be undertaken for 13 months, commencing in October 2014.

Case definition: Please report any neonate up to and including day 28 of life that you have seen in the past month and who has undergone the procedure of exchange blood transfusion.

Website: www.rcpch.ac.uk/bpsu/EBT

Funding: NHS Blood and Transplant Trustees Fund Grant & NICU Endowment Fund, St. Mary's Hospital, Manchester

Ethical approval: This study has been approved by NRES Committee – North West – Greater Manchester Central (REC reference: 13/NW/0063; IRAS project ID: 115143) and has been granted Section 251 HRA-CAG permission (CAG Reference: 14/CAG/1010).

Further information: If you would like any advice regarding the eligibility of a particular case for inclusion in the study please contact:

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